NORTH DAKOTA STATE DEPARTMENT OF HEALTH
Air Pollution Control Program
State Capitol
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT
FORM AP 301
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING
Calendar Year 1975

1. Name of Firm or Organization: United Power Association

2. Plant Location: Stanton, North Dakota

3. Permit to Operate Number: 1

4. Source Unit Number (from Permit to Operate):

5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type Lignite Quantity per year 683,609 Tons (Specify Units) Delivered Cost of fuel $3.37/Ton ($/Unit Quantity)	Type Quantity per year (Specify Units) Delivered Cost of fuel ($/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	 12.68 7.86 9.52 +	
PERCENT SULFUR Max. Min. Avg.	 .94 .59 .74+	
BTU PER UNIT Max. Min. Avg.	 7190/lb 6450/lb 6923/lb = 14×10^6 BTU/Ton Coal	

6. Monthly Fuel Use:

MONTH	QUANTITY PRIMARY FUEL Type Lignite Units Tons	QUANTITY STANDBY FUEL Type_____ Units_____	MONTH	QUANTITY PRIMARY FUEL Type Lignite Units Tons	QUANTITY STANDBY FUEL Type_____ Units_____
Jan.	61,644		July	69,844	
Feb.	55,067		Aug.	75,406	
March	48,027		Sept.	16,201	
April	57,504		Oct.	10,955	
May	65,202		Nov.	73,672	
June	75,287		Dec.	74,800	

7. Hourly Fuel Use:

	QUANTITY PRIMARY FUEL Type Lignite Units Tons	QUANTITY STANDBY FUEL Type_____ Units_____
Maximum	130	
Average	94.4	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 47

Days Per Week 7 Peak Season August and December (Specify Months of Year)

Total Hours Per Year 7896

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	4188	16,534
Sulfur Dioxide	2563	10,117
Nitrogen Oxides	1426	5,630
Other (Specify)	-	-

Basis For Quantities Listed Above:

Particulate = 683,609 tons/yr x 67% fly ash x 9.5% ash x 38% emission = 16,534 tons/yr

SO_2 = 683,609 tons/yr x 0.74% sulfur x $2\frac{SO_2}{S}$ = 10,117 tons/yr

NO_x = SO_2 x $\frac{335\,ppm}{602\,ppm}$ = 5,630 tons/yr

10. Name of Person Submitting Report (Print or Type) Dan McConnon

Title Manager, Environmental and Safety Phone (612)441-3121

I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.

(Signed) D. McConnon Date 1/30/76

USING AP42 Factors

TSP $\frac{(6.5)(9.54\,lb/ton)(683{,}609\,ton/yr)(.38)}{2000\,lb/ton} = 8{,}020.4\,ton/yr$

SO_2 $\frac{(30)(0.74\,lb/ton)(683{,}609\,ton/yr)}{2000} = 7588\,ton/yr$